Seamless WLAN GSM mobility architechture

FIG. 1

- MSC/HLR ~120
- AGW ~310
- ILR ~320
- Network management System ~300
- BSC ~114
- BTS ~112
- 110
- MTS ~220
- hotspot LAN ~230
- 100 GSM
- WLAN access point with WMC SW
- WMC ~210
- WLAN 200
- MS ~150
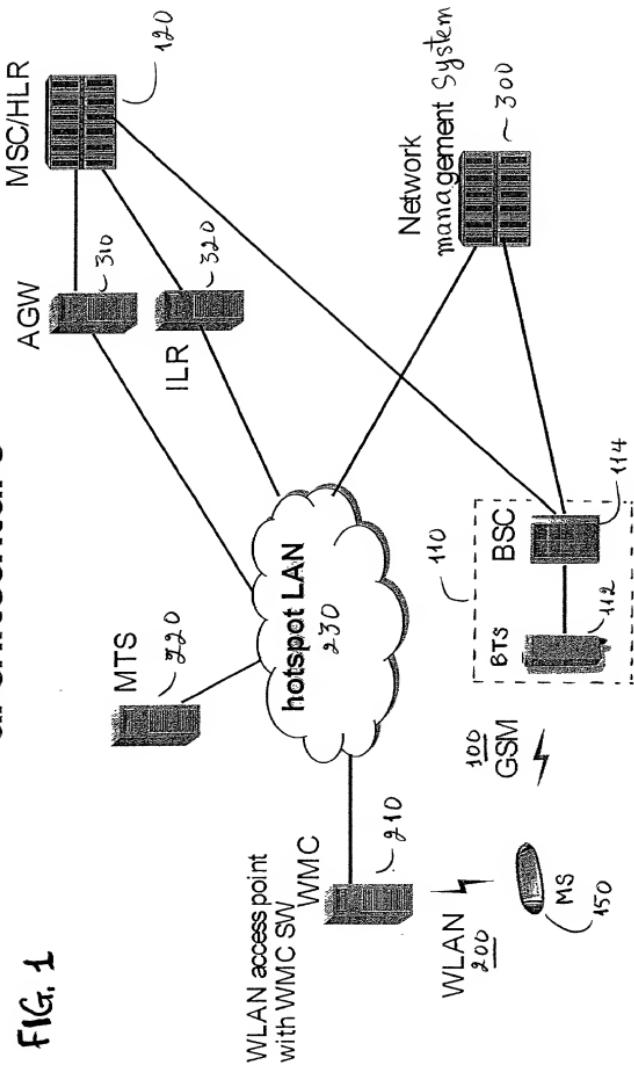
Seamless WLAN GSM mobility idle state GSM to WLAN

FIG. 2

MSC/HLR ~190

AGW ~310

ILR ~320

Network management System ~300

WIO

hotspot LAN ~230

MTS ~220

BSC ~114

LAC A ~112

GSM 100

No action in GSM network

WMC ~210

LAC B

WLAN 200

150
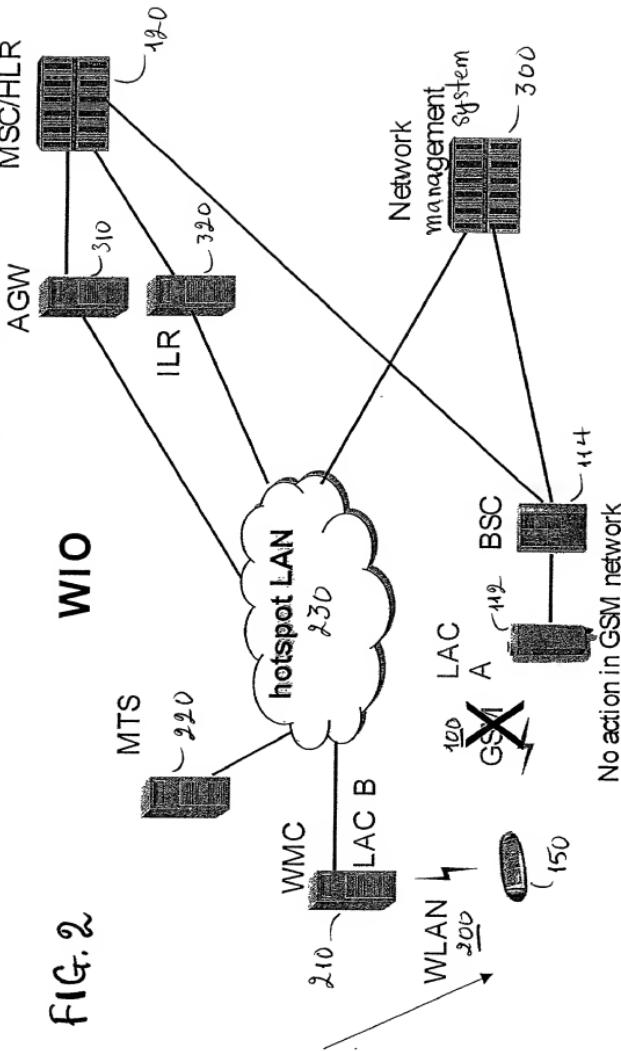
Seamless WLAN GSM mobility
idle state WLAN to GSM

FIG. 3

MSC/HLR ~120

Network management system ~300

AGW ~310

ILR ~320

WIO

hotspot LAN 230

MTS ~220

WMC ~210 LAC B

WLAN 200

BSC ~114

112

LAC A

106 GSM

No action in GSM network
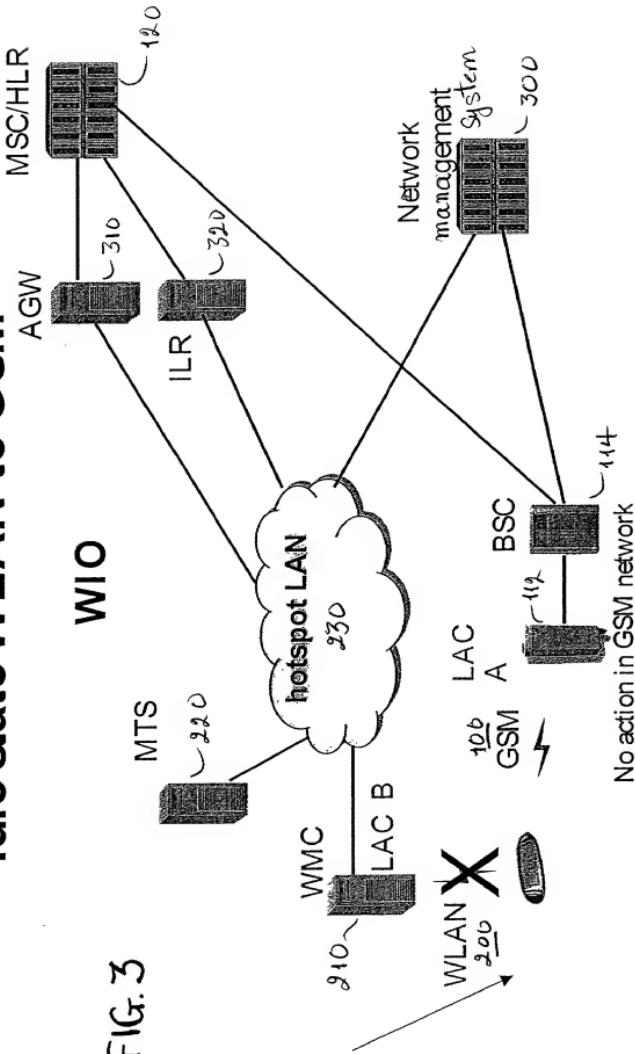
Seamless WLAN GSM mobility active state GSM to WLAN

WIO

FIG. 4

MSC/HLR ~120

Network management System ~300

AGW ~310

ILR ~320

BSC ~114

LAC A ~112

No action in GSM network

hotspot LAN ~230

MTS ~220

GSM 106

WMC LAC B ~210

WLAN ~200
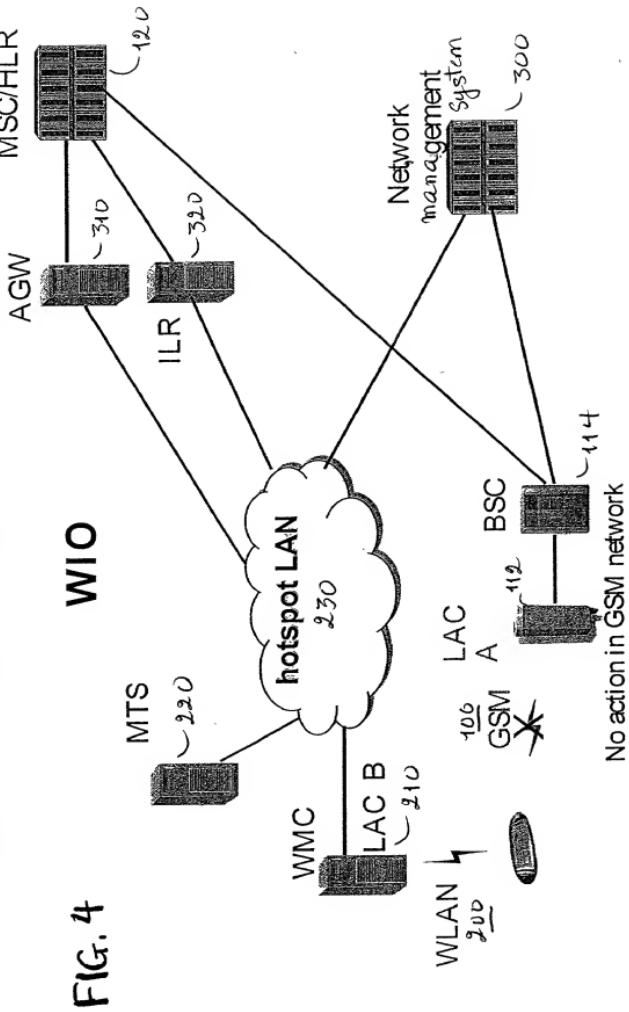
Seamless WLAN GSM mobility
active state WLAN to GSM

FIG. 5

MSC/HLR ~120

AGW ~310

ILR ~320

Network management System ~300

WIO

hotspot LAN ~230

MTS ~220

BSC ~114

LAC A ~112

100 GSM

No action in GSM network

WMC ~210

LAC B

WLAN 200